## WHAT IS CLAIMED IS:

1. A method of suppressing interference in a radar device, comprising the steps of:

transmitting signals with a carrier frequency;

transmitting the signals as pulsed signals with a pulse repetition frequency; and

varying the pulse repetition frequency during operation of the radar device.

- 2. The method according to claim 1, further comprising the step of varying the carrier frequency during operation of the radar device.
- 3. The method according to claim 1, wherein the pulse repetition frequency is varied deterministically in the pulse repetition frequency varying step.
- 4. The method according to claim 1, wherein the pulse repetition frequency is varied chaotically in the pulse repetition frequency varying step.
- 5. The method according to claim 2, wherein the carrier frequency is varied in the carrier frequency varying step by phase modulation.
- 6. The method according to claim 2, wherein the carrier frequency is varied in the carrier frequency varying step by frequency modulation.
- 7. The method according to claim 1, further comprising the steps of:

varying the carrier frequency by frequency modulation; producing a virtual intermediate frequency by mixing a received signal with the modulated carrier frequency; and

analyzing a received signal at the virtual intermediate frequency.

- 8. The method according to claim 2, wherein the carrier frequency is varied in the carrier frequency varying step by a sudden frequency change method.
- 9. A method of suppressing interference in a radar device, comprising the steps of:

transmitting signals with a carrier frequency;

pulsing the signals transmitted with a pulse repetition

frequency; and

varying the carrier frequency during operation of the radar device.

- 10. The method according to claim 9, further comprising the step of varying the pulse repetition frequency during operation of the radar device.
- 11. The method according to claim 10, wherein the pulse repetition frequency is varied deterministically in the pulse repetition frequency varying step.
- 12. The method according to claim 10, wherein the pulse repetition frequency is varied chaotically in the pulse repetition frequency varying step.
- 13. The method according to claim 9, wherein the carrier frequency is varied in the carrier frequency varying step by phase modulation.
- 14. The method according to claim 9, wherein the carrier frequency is varied in the carrier frequency varying step by frequency modulation.
- 15. The method according to claim 9, wherein the carrier frequency is varied in the carrier frequency varying step by frequency modulation, the method further comprising the steps of:

creating a virtual intermediate frequency by mixing a received signal with the modulated carrier frequency; and analyzing the received signal at the virtual intermediate frequency.

- 16. The method according to claim 9, wherein the carrier frequency is varied in the carrier frequency varying step by a sudden frequency change method.
  - 17. A radar device comprising:
- a first arrangement configured to transmit signals with a carrier frequency;
- a second arrangement configured to pulse the signals with a pulse repetition frequency; and
- a third arrangement configured to vary the pulse repetition frequency during operation of the radar device.
- 18. The radar device according to claim 17, further comprising a fourth arrangement configured to vary the carrier frequency during operation of the radar device.
- 19. The radar device according to claim 17, wherein the third arrangement is configured to vary the pulse repetition frequency deterministically.
- 20. The radar device according to claim 17, wherein the third arrangement is configured to vary the pulse repetition frequency chaotically.
- 21. The radar device according to claim 18, wherein the fourth arrangement is configured to vary the carrier frequency by phase modulation.
- 22. The radar device according to claim 18, wherein the fourth arrangement is configured to vary the carrier frequency by frequency modulation, the radar device further comprising:

a fifth arrangement configured to create a virtual intermediate frequency by mixing a received signal with the modulated carrier frequency; and

a sixth arrangement configured to analyze the received signal at the virtual intermediate frequency.

- 23. The radar device according to claim 18, wherein the fourth arrangement is configured to vary the carrier frequency by a sudden frequency change method.
  - 24. A radar device comprising:
- a first arrangement configured to transmit signals with a carrier frequency;
- a second arrangement configured to pulse the signals with a pulse repetition frequency; and
- a third arrangement configured to vary the carrier frequency during operation of the radar device.
- 25. The radar device according to claim 24, further comprising a fourth arrangement configured to vary the pulse repetition frequency during operation of the radar device.
- 26. The radar device according to claim 25, wherein the fourth arrangement is configured to vary the pulse repetition frequency deterministically.
- 27. The radar device according to claim 25, wherein the fourth arrangement is configured to vary the pulse repetition frequency chaotically.
- 28. The radar device according to claim 24, wherein the third arrangement is configured to vary the carrier frequency by phase modulation.
- 29. The radar device according to claim 24, wherein the third arrangement is configured to vary the carrier frequency by frequency modulation, the radar device further comprising:

- a fourth arrangement configured to create a virtual intermediate frequency by mixing a received signal with the modulated carrier frequency; and
- a fifth arrangement configured to analyze the received signal at the virtual intermediate frequency.
- 30. The radar device according to claim 24, wherein the third arrangement is configured to vary the carrier frequency by a sudden frequency change method.